

"THERE WAS NO SIGN OF LIFE ABOARD; HER SPARS WERE GONE, WITH THE EXCEPTION OF THE FOREMAST, BROKEN AT THE HOUNDS,"

THE DERELICT "NEPTUNE."

By Morgan Robertson.

moves a great body of water—the Main largest part of the divided stream, makes a Equatorial Current—which can be con- wide sweep to the east and south, enclosing sidered the motive power, or mainspring, the Azores and the dead-water called the of the whole Atlantic current system, as it Sargasso Sea, then, as the African Current, obtains its motion directly from the ever- runs down the coast until, just below the acting push of the trade-winds. At Cape Canary Isles, it merges into the Lesser St. Roque this broad current splits into Equatorial Current, which, parallel to two parts, one turning north, the other the parent stream, and separated from it south. The northern part contracts, in- by a narrow band of back-water, travels creases its speed, and, passing up the west and filters through the West Indies, northern coast of South America as the making puzzling combinations with the Guiana Current, enters through the Carib-tides, and finally bearing so heavily on the bean Sea into the Gulf of Mexico, where young Gulf Stream as to give to it the sharp it circles around to the northward; then, turn to the northward through the Florida colored a deep blue from the fine river silt Channel. of the Mississippi, and heated from its long surface exposure under a tropical sun the Main Equatorial Current split off by to an average temperature of eighty de- Cape St. Roque and directed south leaves grees, it emerges into the Florida Channel the coast at Cape Frio, and at the latitude as the Gulf Stream.

ing the trend of the coast line, until, off Southern Connecting Current. Cape Hatteras, it splits into three divi- Cape of Good Hope it meets the cold, sions, one of which, the westernmost, northeasterly Cape Horn Current, and with keeps on to lose its warmth and life in it passes up the coast of Africa to join the

CROSS the Atlantic Ocean from the Hebrides, and is no more recognizable as Gulf of Guinea to Cape St. Roque a current; and the third, the eastern and

In the South Atlantic, the portion of of the River Plate assumes a due easterly From here it travels northeast, follow- direction, and crosses the ocean-as the At the Baffin's Bay. Another impinges on the Equatorial Current at the starting-point in

the Gulf of Guinea, the whole constituting

ninety miles a day.

Maisi, after a critical examination through Libre! It's plunder you want." a telescope, disappeared from the rocks, and in a few moments a light boat, of dynamite," answered Boston, with a grin. the model used by whalers, emerged from the mouth of the bay, containing this man and another. In the boat besides was a coil of rope.

The one who had inspected the craft from the rocks was a tall young fellow, dressed in flannel shirt and trousers, the latter held in place by a cartridge-belt, such as is used by the American cowboy. To this was hung a heavy revolver. On his head was a have made me famous and stopped all broad-brimmed cork helmet, much soiled, warfare.' and resembling in shape the Mexican somof brown hair, which showed a non-acquaintance with barbers for, perhaps, months, and under this hair a sun-tanned face, lighted by serious gray eyes. The most noticeable feature of this face was the extreme arching of the eyebrows—a neverfailing index of the highest form of moral courage. It was a face that would please. The face of the other was equally pleasing in its way. It was red, round, and jolly, a certain dignity from closely-cut white hair and moustaches. The man was about fifty, dressed and armed like the other.

"What do you want of pistols, Boston?" he said to the younger man. "One might think this an old-fashioned, piratical cut-

ting out. "

"Oh, I don't know, Doc. It's best to That hulk may be full of have them. Spaniards, and the whole thing nothing but a trick to draw us out. But she looks come in with the Guiana Current. It's all rocks and shoals to the eastward."

she may come ashore right here."

"Where we can loot her. Nice business a circulatory system of ocean rivers, of for a respectable practitioner like me to be speed value varying from eighteen to engaged in! Doctor Bryce, of Havana, consorting with Fenians from Canada, On a bright morning in November, 1894, exiled German socialists, Cuban horse a curious-looking craft floated into the thieves who would be hung in a week if branch current which, skirting Cuba, flows they went to Texas, and a long-legged westward through the Bahama Channel, sailor man who calls himself a retired A man standing on the highest of two naval officer, but who looks like a pirate; points enclosing a small bay near Cape and all shouting for Cuba Libre. Cuba

> "But none of us ever manufactured "How long did they have you in Moro

Castle, Doc?"

"Eight months," snapped the doctor, s face clouding. "Eight months in that his face clouding. rat-hole, with the loss of my property and practice—all for devotion to science. was on the brink of the most important and beneficent discovery in explosives the world ever dreamt of. Yes, sir, 'twould

"The captain told me this morning that Beneath this headgear was a mass he'd heard from Marti," said Boston, after "Good news, he said, but an interval. that's all I learned. May be it's from Gomez. If he'll only take hold again we can chase the Spanish off the island now. Then we'll put some of your stuff under Moro and lift it off the earth."

In a short time, details of the craft ahead, hitherto hidden by distance, began to show. There was no sign of life aboard; her spars were gone, with the exwith twinkling eyes, the whole borrowing ception of the foremast, broken at the hounds, and she seemed to be of about a thousand tons burden; colored a mixed brown and dingy gray, which, as they drew near, was shown as the action of iron rust on black and lead-colored paint. Here and there were outlines of painted ports. Under the stump of a shattered bowsprit projected from between bluff bows a weather-worn figure-head, representing the god of the sea. Above on the bows were wooden-stocked anchors stowed inboard, like a derelict. I don't see how she got and aft on the quarters were iron davits into this channel, unless she drifted up past with blocks intact—but no falls. In a few Cape Maisi from the southward, having of the dead-eyes in the channels could be seen frayed rope-yarns, rotten with age, and, with the stump of the foremast, the The boat, under the impulse of their wooden stocks of the anchors, and the oars, soon passed the fringing reef and teak-wood rail, of a bleached gray color. came in sight of the strange craft, which On the round stern, as they pulled under lay about a mile east and half a mile off it, they spelled, in raised letters, flecked "You see," resumed the younger here and there with discolored gilt, the man, called Boston, "there's a back-water name "Neptune, of London." Unkempt inside Point Mulas, and if she gets into it and forsaken, she had come in from the mysterious sea to tell her story.

was no one in sight, and they sprang down, book, and see what happened to her.

and spongy with time and weather.

ning the gray fabric fore and aft; "one of to pieces. Here's the log." the first iron ships built, I should think. forecastle. See the doors forward, there? leaves. old style. Hatches are all battened down, but I doubt if this tarpaulin holds water.' turned around. "Let's go below. selves before this.' opened them.

"Hold on," said the doctor; "this fact that no sails were sighted. cabin may have been closed for years, and generated poisonous gases. upper door, Boston."

and opened the companion-way above, was the terrible entry: "Fire in the hold." which let a stream of the fresh morning fine dust.

dust at sea?" coughed the doctor.

the manifest and the articles. have been the skipper's room." entered the largest stateroom, and Boston took out one and handed it to the doctor. first to board her since. it's worth bothering about."

"Great Scott!" exclaimed the doctor; Boston looked over his shoulder.

time? Let's see this one."

nitric acid. "That cargo won't be much hold and see what the fire has done."

They climbed the channels, fastened the good to us, Doc. I'd hoped to find somepainter, and peered over the rail. There thing we could use. Let's find the logfinding themselves on a deck that was soft Boston rummaged what seemed to be the "Plenty of duds first mate's room. "She's an old tub," said Boston, scan- here," he said; "but they're ready to fall

He returned with the book, and, seated They housed the crew under the t'gallant at the dusty table, they turned the yellow "First departure, Highland And she has a full-decked cabin-that's Light, March 10th, 1844," read Boston. "We'll look in the remarks column."

Nothing but the ordinary incidents of a He stepped on the main hatch, brought voyage were found until they reached the his weight on the ball of one foot, and date June 1st, when entry was made of the The canvas crumbled ship being "caught aback" and dismasted to threads, showing the wood beneath. off the Cape of Good Hope in a sudden If there were any gale. Then followed daily "remarks" of Spaniards here they'd have shown them- the southeasterly drift of the ship, the ' The cabin doors extreme cold (which, with the continuance were latched but not locked, and they of the bad weather, prevented them from saving the wreck for jury-masts), and the

June 6th told of her being locked in soft, Open that slushy ice, and still being pressed southward by the never-ending gale; June 10th Boston ran up the shaky poop ladder said that the ice was hard, and on June 15th

On June 16th was entered this: "Kept air and sunshine into the cabin; then, after hatches battened down and stopped all a moment or two, descended and joined air-holes, but the deck is too hot to stand the other, who entered from the main deck. on, and getting hotter. Crew insist on They were in an ordinary ship's cabin, lowering the boats and pulling them northsurrounded by staterooms, and with the ward over the ice to open water in hopes usual swinging lamp and tray; but the of being picked up. Good-by." In the table, chairs, and floor were covered with position columns of this date the latitude was given as 62-44 S. and the longitude as "Where the deuce do you get so much 30-50 E. There were no more entries.
"What tragedy does this tell of?" said

"Nobody knows, Doc. Let's hunt for the doctor. "They left this ship in the This must ice fifty years ago. Who can tell if they

They were saved?"

"Who indeed?" said Boston. opened an old-fashioned desk. Among mate hadn't much hope. He said 'Goodthe discolored documents it contained, he by.' But one thing is certain: we are the I take it she "Articles," he said; "look at it." Soon stayed down there in the ice until she he took out another. "I've got it. Now drifted around the Pole, and thawed out we'll find what she has in her hold, and if where she could catch the Cape Horn Current, which took her up to the Hope. Then she came up with the South African Current "this paper is dated 1844, fifty years till she got into the Equatorial drift; then west, and up with the Guiana Current into "That's so; she signed her crew at Bos- the Caribbean Sea to the southward of us, ton, too. Where has she been all this and this morning the flood tide brought her through. It isn't a question of winds; The manifest was short, and stated that they're too variable. It's currents, though her cargo was 3,000 barrels of lime, 8,000 it may have taken her years to get here. kids of tallow, and 2,500 carboys of acid. But the surprising part of it is that she 1,700 of which were sulphuric, the rest of hasn't been boarded. Let's look in the



"SOON THE SQUALL, COMING WITH A SHOCK LIKE A SOLID BLOW, STRUCK THE HULK BROADSIDE TO AND CAREENED

hanging the eastern end of the island, was clear. Now, as they emerged from squalls of the West India seas.

them," remarked Boston, as he viewed it. dropping rain. Hold on, there, Doc. Stay aboard. We couldn't pull ashore in the teeth of it." The doctor had made a spasmodic leap to the rail. "If the anchor chains were shackled on, we might drop one of the hooks and hold her, but it's two hours' work for a full crew.'

"But we're likely to be blown away, aren't we?" asked the doctor.

"Not far. I don't think it'll last long. a shock like a solid blow, struck the hulk then Boston said: "This is getting seri- he went down.

When they boarded the hulk, the sky, ous. It's no squall. If it wasn't so late in with the exception of a filmy haze over- the season I'd call it a hurricane. I'm going on deck.'

He climbed the companion-way stairs to the cabin, this haze had solidified and was the poop, and shut the scuttle behind him, coming-one of the black and vicious for the rain was flooding the cabin; then looked around. The shore and horizon "No man can tell what wind there is in were hidden by a dense wall of gray, which seemed not a hundred feet away. From "But it's pretty close to the water, and to windward this wall was detaching great waves or sheets of almost solid water, which bombarded the ship in successive blows, to be then lost in the gray whirl to leeward. Overhead was the same dismal hue, marked by hurrying masses of darker cloud, and below was a sea of froth, white and flat; for no waves could raise their heads in that wind. Drenched to the skin, he tried the wheel and found it free in its movements. In front of it was a substan-We'll make the boat fast astern and get tial binnacle, and within a compass, which, out of the wet." They did so, and entered though sluggish, as from a well-worn the cabin. Soon the squall, coming with pivot, was practically in good condition. "Blowing us about nor'west by west," he broadside to and careened her. From the muttered, as he looked at it, "straight up cabin door they watched the nearly hori- the coast. It's better than the beach in zontal rain as it swished across the deck, this weather, but may land us in Havana." and listened to the screaming of the wind, He examined the boat. It was full of which prevented all conversation. Silent- water, and tailing to windward, held by its ly they waited-one hour-two hours- painter. Making sure that this was fast,

water from his limp cork helmet and flat- same fine dust which filled the cabin. tened it on the table, "have you any obgoing into Havana?'

"I have—decided objections."

"So have I; but this wind is blowing us there—sideways. this, at this time of year, will last three days at least, and I've an idea that it'll haul gradually to the south toward the It did not go out. end of it. Where'll we be then? Either piled up on one of the Bahama cays or interviewed by the Spaniards. Now I've been thinking of a scheme on deck. We can't get back to camp for a while—that's This iron hull is worth something, and if we can take her into an wind line."

"But I can't steer. And how long will this voyage take?

"Yes, you can steer; good enough. And, of course, it depends on food, and that's going to waste."

In what had been the steward's storeroom they found a harness-cask with bones and a dry dust in the bottom. "It's salt to broach one for a while. There's a bag meat, I suppose," said the doctor, "re- of coffee-gone to dust, and some hard duced to its elements." With the handles bread that isn't fit to eat; but this'll do." of their pistols they carefully hammered He picked up the open can. down the rusty hoops over the shrunken brine they had once held, and taking it out on deck, cleaned it thoroughly under the scuppers-or drain holes-of the poop, tasted the contents of the can, "that this and let it stand under the stream of water stuff should keep so long?" to swell and sweeten itself.

us two weeks. Now we'll hunt for her stores. I've eaten salt horse twenty years old, but I can't vouch for what we may find here." They examined all the rooms adjacent to the cabin, but found nothing.

"Where's the lazarette in this kind of a ship?" asked Boston. "The cabin runs

"Doc," he said, as he squeezed the boxes and barrels—all covered with the

"Don't go down there, yet, Boston," jections to being rescued by some craft said the doctor. "It may be full of carbonic acid gas. She's been afire, you know. Wait." He tore a strip from some bedding in one of the rooms, and, Now, such a blow as lighting one end by means of a flint and steel which he carried, lowered the smouldering rag until it rested on the pile below.

> "Safe enough, Boston," he remarked. "But you go down; you're younger."

> Boston smiled and sprang down on the pile, from which he passed up a box. 'Looks like tinned stuff, Doc. Open it, and I'll look over here."

The doctor smashed the box with his American port we can claim salvage. foot, and found, as the other had thought, Key West is the nearest, but Fernandina that it contained cylindrical cans; but the is the surest. We've got a stump of a labels were faded with age. Opening one foremast and a rudder and a compass. If with his jack-knife, he tasted the contents. we can get some kind of sail up forward It was a mixture of meat and a fluid, and bring her 'fore the wind, we can steer called by sailors "soup and bully," and any course within thirty degrees of the as fresh and sweet as though canned the day before.

"We're all right, Boston," he called What will we down the hatch. "Here's as good a dish as I've tasted for months. Ready cooked, too."

Boston soon appeared. "There's some water, too. We'd better catch some of this beef or pork barrels over in the wing," he said, "and plenty of this canned stuff. don't know what good the salt meat is. The barrels seem tight, but we won't need

"Boston," said the doctor, "if those staves, which were well preserved by the barrels contain meat, we'll find it cooked -boiled in its own brine, like this."

"Isn't it strange," said Boston, as he

'Not at all. It was cooked thoroughly "If we find more casks we'll catch some by the heat, and then frozen. more," said Boston; "but that will last barrels haven't burst from the expansion of the brine under the heat or cold, you'll find the meat just as good."

"But rather salty, if I'm a judge of salt horse. Now, where's the sail-locker? We want a sail on that foremast. It must be forward."

In the forecastle they found sailor's right aft to the stern. It must be below chests and clothing in all stages of ruin, us." He found that the carpet was not but none of the spare sails that ships tacked to the floor, and, raising the after carry. In the boatswain's locker, in one end, discovered a hatch, or trap-door, corner of the forecastle, however, they which he lifted. Below, when their eyes found some iron-strapped blocks in fairwere accustomed to the darkness, they saw ly good condition, which Boston noted.

Then they opened the main hatch, and after lashing the lower corners to the winddiscovered a mixed pile of boxes, some lass and fife-rail. showing protruding necks of large bottles, or carboys, others nothing but the circular slowly off and gathered headway. Boston opening. Here and there in the tangled took the wheel and steadied her at northand unrolled, but all yellow and worthless. the doctor, at his request, brought the open They closed the hatch, and returned to can of soup and lubricated the wheelthe cabin.

'tween-deck on top of the cargo,' said hard with the rust of fifty years.

Boston; "and the carboys—" Their improvised sail, presse

and ruined the sails," broke in the doctor. now, with the first flap as the gale caught "But another question is, what became it from another direction, appeared a rent; of that acid?'

"If it's not in the 'tween-deck yet, it hatches.

"I hope it hasn't reached the iron in the first oxidation, but in fifty years mixed nitric and sulphuric will do lots of work."

fore the wind. How'll the carpet do?" fabric in his fingers. "It'll go," he said; had examined the boat, towing half out "we'll double it. I'll hunt for a palm of water, and concluding that a short and needle and some twine." These painter was best with a waterlogged boat, he, "but we'll use four parts."

Together they doubled the carpet diag- own-helpless, hove-to, or scudding. onally, and with long stitches joined the to lift things out of the hold with it."

It stood the pressure, and the hulk paid heap were sections of canvas sails-rolled west by west-dead before the wind, while screw with the only substitute for oil at "They stowed their spare canvas in the their command; for the screw worked

Their improvised sail, pressed steadily "And the carboys burst from the heat on but one side, had held together, but with the next flap the rag went to pieces.

"Let her go," sang out Boston, gleemust be in the hold-leaked through the fully; "we can steer now. Come here, Doc, and learn to steer.'

The doctor came; and when he left that hull, Boston, my boy. It takes a long wheel, three days later, he had learned. time for cold acids to act on iron after the For the wind had blown a continuous gale the whole of this time, which, with the ugly sea raised as the ship left the lee of "No fear, Doc; it had done its work the land, necessitated the presence of both when you were in your cradle. What'll we men at the helm. Only occasionally was do for canvas? We must get this craft be- there a lull during which one of them could rush below and return with a can of the Boston sprang to the edge, and tried the soup. During one of these lulls, Boston articles he found in the mate's room, had reinforced it with a few turns of his "The twine's no better than yarn," said rope from forward. In the three days they had sighted no craft except such as their

Boston had judged rightly in regard to edges. Then Boston sewed into each cor- the wind. It had hauled slowly to the ner a thimble—an iron ring—and they had southward, allowing him to make the a triangular sail of about twelve feet hoist, course he wished-through the Bahama "It hasn't been exposed to the action of and up the Florida Channel with the wind the air like the ropes in the locker for- over the stern. During the day he could ward," said Boston, as he arose and took guide himself by landmarks, but at night, off the palm; "and perhaps it'll last till with a darkened binnacle, he could only she pays off. Then we can steer. You steer blindly on with the wind on his back. get the big pulley blocks from the locker, The storm centre, at first to the south of Doc, and I'll get the rope from the boat— Cuba, had made a wide circle, concentric it's lucky I thought to bring it; I expected with the curving course of the ship, and when the latter had reached the upper end At the risk of his life Boston obtained of the Florida Channel, had spurted ahead the coil from the boat, while the doctor and whirled out to sea across her bows. brought the blocks. Then, together, they It was then that the undiminished gale, rove off a tackle. With the handles of blowing nearly west, had caused Boston, in their pistols, they knocked bunk-boards despair, to throw the wheel down and to pieces and saved the nails; then Boston bring the ship into the trough of the seaclimbed the foremast, as a painter climbs to drift. The two wet, exhausted, hollowa steeple—by nailing successive billets of eyed men slept the sleep that none but wood above his head for steps. Next he sailors and soldiers know; and when they hauled up and secured the tackle to the wakened, twelve hours later, stiff and sore, forward side of the mast, with which they it was to look out on a calm, starlit evenpulled up the upper corner of their sail, ing, with an eastern moon silvering

surface of the long, north-bound rollers, and showing in sharp relief a dark hori- ger or troop ship," said Boston. zon, on which there was no sign of land tanks would water a regiment." or sail.

They satisfied their hunger; then Boston, with a rusty iron pot from the galley, to which he fastened the end of his rope, dipped up some of the water from over the side. It was warm to the touch, and, aware that they were in the Gulf Stream, they crawled under the musty bedding in said. the cabin berths and slept through the promise of the easterly wind that Boston ined it closely in the light of the hatch. hoped would come to blow them to port, "Boston," he said, impressively, "this and they secured their boat—reeving off davit tackles, and with the plug out, pulling it up, one end at a time, while the water drained out through the hole in the bottom.

"Now, Boston," said the doctor, "here we are, as you say, on the outer edge of the Gulf Stream, drifting out into the through that storeroom and see what else I want to know where that acid went."

down the notched steps in a stanchion. In a short time he came up with a yellow substance in his hand, which he washed improvised draw-bucket, and placed in the Are tanks at sea filled to the top?" Then he returned to the sun to dry. 'tween-deck. After a while, Boston, rum- on the upper end of the pipes." maging the lazarette, heard him calling through the bulkhead, and joined him.

Help me get it up.'

Below was a filthy-looking layer of whit- ing hot mess. ish substance, protruding from which were conditions?" charred, half-burned staves. First they repeated the experiment with the smoulbefore, they descended. The whitish substance was hard enough to bear their weight, and they looked around. head, hung to the under side of the deck and extending the length of the hold, were wooden tanks, charred, and in some places customary in iron ships?" burned through.

"She must have been built for a passen-

"Boston," answered the doctor, irrelevantly, "will you climb up and bring down an oar from the boat? Carry it down-don't throw it, my boy." Boston obliged him, and the doctor, picking his way forward, then aft, struck each tank with the oar. "Empty-all of them," he

He dug out with his knife a piece of the In the morning there was no whitish substance under foot, and exam-

> ship was loaded with lime, tallow, and acids-acids above, lime and tallow down here. This stuff is neither; it is lime And, moreover, it has not been soap. touched by acids." The doctor's ruddy face was ashen.

"Well?" asked Boston.

" Lime soap is formed by the causticizing broad Atlantic at the rate of four miles action of lime on tallow in the presence of an hour. We've got to make the best of it water and heat. It is easy to understand until something comes along; so you hunt this fire. One of those tanks leaked and dribbled down on the cargo, attacking the there is to eat, and I'll examine the cargo. lime, which was stowed underneath, as all these staves we see on top are from tallow-They opened all the hatches, and while kids. The heat generated by the slacking Boston descended to the lazarette, the lime set fire to the barrels in contact, which doctor, with his trousers rolled up, climbed in turn set fire to others, and they burned until the air was exhausted, and then went out. See, they are but partly consumed. There was intense heat in this hold, and thoroughly with fresh water in Boston's expansion of the water in all the tanks.

"Chock full, and a cap screwed down

"As I thought. The expanding water burst every tank in the hold, and the cargo "Look here, Boston," said the doctor; was deluged with water, which attacked "I've cleared away the muck over this every lime barrel in the bottom layer, at hatch. It's caulked, as you sailormen call least. Result—the bursting of those barrels from the ebullition of slacking lime, They dug the compacted oakum from the melting of the tallow-which could the seams with their knives, and by iron not burn long in the closed-up space—and rings in each corner, now eaten with rust to the mixing of it in the interstices of the the thinness of wire, they lifted the hatch. lime barrels with water and lime-a boil-What happens under such

"Give it up," said Boston, laconically. "Lime soap is formed, which rises, and dering rag, and finding that it burned, as the water beneath is in time all taken up by the lime."

"But what of it?" interrupted the

"Wait. I see that this hold and the 'tween-deck are lined with wood. Is that

"Not now. It used to be a notion that



"FOISED ON END IN MID-AIR, WITH DECK AND SPONSONS STILL INTACT, A BOWLESS, BOTTOMLESS REMNANT OF THE CRUISER."

an iron skin damaged the cargo; so the thousand fifty-pound kids-four hundred first iron ships were ceiled with wood."

"Yes, always; three or four scupperholes each side amidships. They lead the water into the bilges, where the pumps can with a startled look, "that-" reach it.

charred most.

the 'tween-deck scuppers to keep any

and away from the lime."

internal movement of the broken carboys, perhaps. At any rate, it came out, after thing else." remaining in place long enough for the acids to become thoroughly mixed and for the doctor. the hull to cool down. She was in the his seamanship. Boston, the mixed acid ice, remember. Where is it now?"

"I suppose," said Boston, thoughtfully, "that it soaked up into the hold, through the skin."

"Exactly. The skin is caulked with oakum, is it not?" Boston nodded.

"That oakum would contract with the charring action, as did the oakum in the hatch, and every drop of that acid-ten locker, and the doctor, tearing off a small thousand gallons, as I have figured—has piece of the substance and placing it on filtered up into the hold, with the excepthe iron barrel of a gipsy-winch, gave it a tion of what remained between the frames hard blow with the marline-spike, which under the skin. Have you ever studied was nearly torn from his hand by the exchemistry?"

"Slightly."

a soap. But there are two ends to every from the impurities and free acids. equation, and at the bottom of this im- washed this for safe handling. water, which would afterwards be taken would pulverize the Rock of Gibraltar!" up by the surplus lime, was the other end "But, Doctor," asked Boston, as he of this equation; and as the yield from leaned against the rail for support, per cent., and as we start with eight the action of the acids on the lime-

thousand pounds-all of which has disap-"Are there any drains in the 'tween- peared, we can be sure that, sticking to deck to let water out, in case it gets into the skin and sides of the barrels down that deck from above—a sea, for in- here, is—or was once—one hundred and twenty thousand pounds, or sixty tons, of the other end of the equation-glycerine!"

"Do you mean, Doc," asked Boston,

"I mean," said the doctor, emphatic-I found up there," continued the doc- ally, "that the first thing the acids-mixed tor, "a large piece of wood, badly charred in the 'tween-deck to the right proportions, by acid for half its length, charred to a mind you—would attack, on oozing through lesser degree for the rest. It was oval in the skin, would be this glycerine; and the cross section, and the largest end was certain product of this union under intense cold-this hull was frozen in the ice, re-"Scupper plug. I suppose they plugged member-would be nitro-glycerine; and, as the yield of the explosive mixture is water they might ship out of the bilges two hundred and twenty per cent. of the glycerine, we can be morally sure that in "Yes, and those plugs remained in place the bottom of this hold, held firmly in a for days, if not weeks or months, after the hard matrix of sulphate or nitrate of calcarboys burst, as indicated by the greater cium-which would be formed next when charring of the larger end of the plug. I the acids met the hydrates and carbonates burrowed under the debris, and found the of lime—is over one hundred and thirty hole which that plug fitted. It was worked tons of nitro-glycerine, all the more exploloose, or knocked out of the hole by some sive from not being washed of free acids. Come up on deck. I'll show you some-

> Limp and nerveless, Boston followed This question was beyond

The doctor brought the yellow subwent down that hole, or others like it. stance-now well dried. "I found plenty of this in the 'tween-deck," he said; "and I should judge they used it to pack between the carboy boxes. It was once cotton-batting. It is now, since I have washed it, a very good sample of gun-Get me a hammer-crowbarcotton. something hard."

Boston brought a marline-spike from the

plosion that followed.

"We have in the 'tween-deck," said "Then you can follow me. When tal- the doctor, as he turned, "about twice as low is saponified there is formed, from the many pounds of this stuff as they used to palmitin, stearin, and olein contained, with pack the carboys with; and, like the nitrothe causticizing agent—in this case, lime— glycerine, it is the more easily exploded mense soap vat, held in solution by the we are adrift on a floating bomb that

tallow of this other product is about thirty "wouldn't there be evolution of heat from

enough to explode the nitro-glycerine just —with ruined digestions and shattered formed?'

is the fact that this hull still floats. The gladdened their eyes after the gale in the action was too slow, and it was very cold Florida Channel. down there. But I can't yet account for the acids left in the bilges. What have been driving them, broadside on, in the they been doing all these fifty years?"

locker, which he scraped bright with his they now saw appeared to them a dark, knife; then, unlaying a strand of the rope ragged line of blue, early in the morning. for a line, sounded the pump-well. The Boston could only surmise that it was the rod came up dry, but with a slight dis- coast of Portugal or Spain. coloration on the lower end, which Boston which lay between them and the land, showed to the doctor.

on the iron frames and plates. How thick bows nearly toward them.

frames, like railroad iron.'

much salvage. Get up some kind of distress signal, Boston." Somehow the doctor was now the master spirit.

A flag was nailed to the mast, union down, to be blown to pieces with the first breeze; then another, and another, until the flag locker was exhausted. Then they hung out, piece after piece, all they could spare of the rotten bedding, until that too was exhausted. locker of their boat, a flag of Free Cuba, what she is, with her funnels and bridge which they decided not to waste, but to carried away." hang out only when a sail appeared.

But no sail appeared, and the craft, asked the doctor, excitedly. "Hadn't she affeted by gales and seas, drifted east- better get out of our way?" buffeted by gales and seas, drifted eastward, while the days became weeks, and Twice she the weeks became months. entered the Sargasso Sea-the gravey ard of derelicts-to be blown out by friendly gales and resume her travels. Occasional rains replenished the stock of fresh water, but the food they found at first, with the spot, the derelict heaving to leeward in exception of some cans of fruit, was all that came to light. The salt meat was leathery, and crumbled to a salty dust on a length further on. Soon they could make exposure to the air. After a while their out the figures of men. stomachs revolted at the diet of cold "Take us off," screamed the doctor, soup, and they are only when hunger com- waving his arms, "and get out of our pelled them.

At first they had stood watch-andwatch, but the lonely horror of the long she's started her engine." night vigils in the constant apprehension of instant death had affected them alike, and they gave it up, sleeping and watching might approach. But it was four months Spain was run up to the masthead. from the beginning of this strange voy-

nerves-saw, with joy which may be imag-"The best proof that it did not explode ined, the first land and the first sail that

A fierce gale from the southwest had trough of the sea, for the whole of the Boston found a sounding-rod in the preceding day and night; and the land The sail about three miles to leeward, proved to be "The acids have expended themselves the try-sail of a white craft, hove-to, with

Boston climbed the foremast with their Plates, about five-eighths of an inch; only flag and secured it; then, from the high poop-deck, they watched the other "This hull is a shell! We won't get craft, plunging and wallowing in the immense Atlantic combers, often raising her forefoot into plain view, again descending with a dive that hid the whole forward half of the craft in a white cloud of

spume.

"If she was a steamer I'd call her a cruiser," said Boston; "one of Uncle Sam's white ones, with a storm sail on her military mainmast. She has a ram bow, Then they found, in a and—yes, sponsons and guns.

"Isn't she right in our track, Boston?"

"She's got steam up—a full head: see the escape-jet. She isn't helpless. she don't launch a boat, we'll take to ours and board her."

The distance lessened rapidly—the cruiser plunging up and down in the same great, swinging leaps, as the successive seas caught her, each one leaving her half

way!'

"We'll clear her," said Boston; "see,

As they drifted down on the weather side of the cruiser they shouted repeatedly words of supplication and warning. They together. They had taken care of their were answered by a solid shot from a boat and provisioned it, ready to lower secondary gun, which flew over their and pull into the track of any craft that heads. At the same time, the ensign of

"They're Spanish, Boston. age when the two men, gaunt and hungry firing on us. Into that boat with you! If a shot hits our cargo, we won't know what When but half a length separated the two struck us.'

They sprang into the boat, which luckily hung on the lee side, and cleared the falls —fastened and coiled in the bow and stern. Often during their long voyage they had rehearsed the launching of the boat in a out the gray of the sea and sky to leeseaway—an operation requiring quick and ward, and for an instant the horrified men concerted action.

"Ready, Doc?" sang out Boston. "One, two, three-let go!" The falls overhauled centre of this red wall, and near this cenwith a whir, and the falling boat, striking tre, poised on end in mid-air, with deck an uprising sea with a smack, sank with it. When it raised they unhooked the tackle tomless remnant of the cruiser. blocks, and pushed off with the oars just spectacle went out in the darkness of un-

"Pull, Boston; pull hard-straight to trated thunder, struck them down. windward!" cried the doctor.

and though they were pulling in the teeth the inward rush of surrounding water arose of a furious gale, the hulk was drifting a mighty gray cone, which subsided to a away from them, and in a short time they hollow, while another wave followed the were separated from their late home by a first. Again and again this gray pillar full quarter-mile of angry sea. The cruiser rose and fell, each subsidence marked by had forged ahead in plain view, and, as the sending forth of a wave. And long they looked, took in the try-sail.

"See, she's paying off."

"I don't know what 'wearing' means, Boston," panted the doctor, "but I know the Spanish nature. She's going to ram the shattered remnant, which, with the that hundred and thirty tons of nitro. Don't stop. Pull away. Hold on, there; hold on, you fools!" he shouted. "That's a torpedo; keep away from her!"

away, the doctor stood up, waving his of the finest cruisers in the Spanish navy. oar frantically, and Boston assisted. But A few days later, two exhausted, halfif their shouts and gestures were under- starved men pulled a whaleboat up to the stood aboard the cruiser, they were ig- steps of the wharf at Cadiz, where they She slowly turned in a wide curve and headed straight for the "Neptune," which had drifted to leeward of her.

What was in the minds of the officers on that cruiser's deck will never be known. Cruisers of all nations hold roving commissions in regard to derelicts, and it is fitting and proper for one of them to gently prod a "vagrant of the sea" with the steel prow and send her below to trouble no more. But it may be that the sight of the Cuban flag, floating defiantly in the gale, had something to do with the speed at which the cruiser approached.

crafts, a heavy sea lifted the bow of the cruiser high in air; then it sank, and the sharp steel ram came down like a butcher's cleaver on the side of the derelict.

A great semi-circular wall of red shut in the boat saw—as people see by a lightning flash-dark lines radiating from the and sponsons still intact, a bowless, botas a second shot hummed over their heads. consciousness; for a report, as of concengreat wave left the hollow vortex in the The tight whaleboat shipped no water, sea, which threw the boat on end, and with before these concentric waves had lost She's going to wear," said Boston, themselves in the battle with the stormdriven combers from the ocean, the halffilled boat, with her unconscious passengers, had drifted over the spot where lay splintered fragments of wood and iron strewn on the surface and bottom of the sea for a mile around, and the lessening cloud of dust in the air, was all that was Forgetting his own injunction to pull left of the derelict "Neptune" and one

> A few days later, two exhausted, halftold some lies and sold their boat. Six months later, these two men, sitting at a camp-fire of the Cuban army, read from a discolored newspaper, brought ashore with the last supplies, the following:

> > " By cable to the 'Herald.'

"CADIZ, March 13, 1895.—Anxiety for the safety of the 'Reina Regente' has grown rapidly to-day. and this evening it is feared, generally, that she went down with her four hundred and twenty souls in the storm which swept the southern coast on Sunday night and Monday morning. Despatches from Gibraltar say that pieces of a boat and several semaphore flags belonging to the cruiser came ashore at Ceuta and Tarifa this afternoon."